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Dave Campbell
Editorial Content Chief, *WOOD* magazine



Adobe Acrobat Reader Troubleshooting Guide

If you can read this page, your Acrobat Reader program is working correctly! But you may still have problems or specific issues, such as printing and saving your downloadable file.

My printer won't print the text correctly

Almost all printing problems are due to not enough free system resources memory. The files are very memory intensive because they include graphics, text, and photos. Close all other programs/applications and print directly out of the Acrobat Reader program, not your Web browser.

Patterns are not printing full-size

Make sure your printer is set to print at 100 percent, "print to fit" is not checked and "page scaling" is set to "none". These settings are selected in the printer setup or printer options.

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candles on a curve

Create a simple yet graceful stand
for five votive candles.



Note: Before starting this project, purchase the votive candle holders. To ensure that they will fit on the rests, drill a $1\frac{1}{8}$ " hole $\frac{3}{16}$ " deep in scrap, and take it to the store with you.

Start with the piers

1 Laminate two $\frac{3}{4} \times 2\frac{3}{4} \times 8$ " pieces of stock to make a $1\frac{1}{2}$ "-thick blank for the piers (A). With the glue dry, joint one edge of the blank, and trim it to $2\frac{1}{2}$ " wide. From this blank crosscut two $1\frac{1}{2} \times 2\frac{1}{2} \times 3$ " pier blanks.

2 Make four copies of the pier full-size end pattern on pages 60 and 61. Using spray adhesive, adhere a pattern to each end of both pier blanks. Align the pattern's centerline with the blanks' glue lines. Use your drill press to drill the $\frac{1}{4}$ " holes $\frac{3}{8}$ " deep where indicated on the patterns.

3 Taper the piers, bandsawing to the waste side of the pattern lines, as shown in the Shop Tip, right. Sand the sides smooth.

4 Chuck a chamfer bit in your table-mounted router, and rout the $\frac{1}{8}$ " chamfers on the piers' ends, where shown on the pattern and Drawing 1.

5 Plane a $\frac{3}{4} \times 2 \times 10$ " piece of stock to $\frac{3}{8}$ " thick for the bases (B). Cut the bases to size, and rout $\frac{1}{8}$ " chamfers on their top edges, where shown on Drawing 1.

6 Sand the piers and bases to 220 grit. Clamp them together with the piers centered on the bases. Drill pilot and countersunk shank holes, where shown, and drive in the screws.

Form the arches

1 Plane two $\frac{3}{4} \times 2\frac{3}{8} \times 30$ " pieces of stock to $\frac{3}{8}$ " thick to make blanks for the arches (C). Stick the blanks together face-to-face with double-faced tape. Make three copies of the pair of arch full-size half patterns on the pattern insert.

Using spray adhesive, adhere one pair of arch patterns to the blanks, joining the pattern halves where indicated. Set the other pattern copies aside. Bandsaw and sand the arches to the pattern lines. We adhered sandpaper to waste pieces cut from the arch blank to make custom-contoured sanding blocks. Separate the two arches.

2 Cut the remaining two copies of the pair of full-size half patterns along the pattern lines. Adhere them to the inside surfaces of the arches. Drill the $\frac{1}{4}$ " holes $\frac{1}{4}$ " deep, where indicated.

3 With the chamfer bit still in your table-mounted router, rout $\frac{1}{16}$ " chamfers along the outside edges of the arches, where shown on the pattern and Drawing 1. Sand the arches to 220 grit.

Now make the rests

1 Plane a $\frac{3}{4} \times 2\frac{1}{8} \times 18$ " board to $\frac{3}{8}$ " thick for the rests (D). Cut five 3"-long rest blanks. Make five copies of the rest full-size pattern, and adhere the patterns to the blanks.

2 Chuck a $\frac{1}{4}$ " bit in your drill press, and drill centered holes $\frac{3}{8}$ " deep in the blanks' ends. Use your drill-press fence

SHOP TIP

Scrapwood keeps fingers safe

When bandsawing small workpieces such as the piers, attach the blanks to a 2x4 scrap with double-faced tape, as shown in the photo, right. Thick cloth-backed tape works best.





and a stopblock to position the rest blanks. Switch to a $1\frac{7}{8}$ " Forstner bit. Lay the blanks flat, reposition the fence and stopblock, and drill the $\frac{3}{16}$ "-deep recesses, where shown on the pattern.

3 Bandsaw and sand the rests (D) to their finished shape. Ease the edges of the curved sides with a sanding block. Sand the rests to 220 grit.

Assemble and finish

1 Cut 14 pieces of $\frac{1}{4}$ "-diameter dowel $\frac{5}{8}$ " long. Dry-assemble the parts, where shown on Drawing 1. Use a straight piece of scrap 18" long to align the rests parallel to each other, as shown in Photo A. We shimmed the inside pair of rests $\frac{3}{32}$ ", the outside pair $\frac{7}{16}$ ". When you are satisfied with the fit and alignment, glue and clamp the parts.

2 Apply a clear finish. We sprayed two coats of satin polyurethane from an aerosol can, sanding lightly with 220-grit sandpaper between coats. 🌲

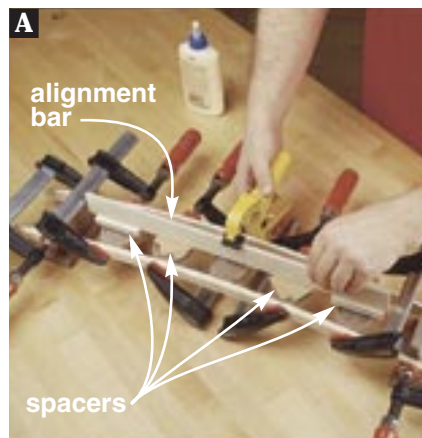
Written by Jan Svec with Jeff Mertz

Project design: Jeff Mertz

Illustrations: Roxanne LeMoine; Lorna Johnson

Photographs: Marty Baldwin

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Clamp an alignment bar to the center rest. Insert spacers between the bar and the other rests to keep them all parallel.

materials list

Part	FINISHED SIZE			Matl.	Qty.
	T	W	L		
A* piers	1 $\frac{1}{8}$ "	2 $\frac{1}{2}$ "	3"	LW	2
B* bases	$\frac{3}{8}$ "	2"	4 $\frac{1}{4}$ "	W	2
C* arches	$\frac{3}{8}$ "	2 $\frac{3}{8}$ "	28"	M	2
D* rests	$\frac{3}{8}$ "	2 $\frac{1}{8}$ "	3"	W	5

*Parts initially cut oversize. See the instructions.

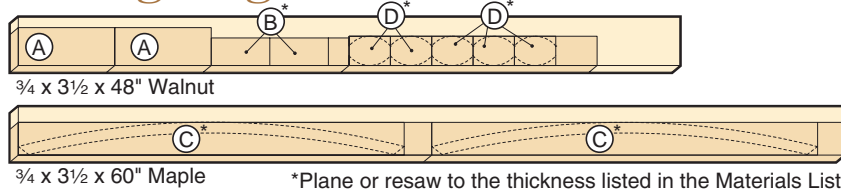
Materials Key: LW-laminated walnut, W-walnut, M-maple.

Supplies: #6x1" flathead wood screws (4), $\frac{1}{4}$ "-diameter dowel 12" long, glass votive candle holders (5), votive candles (5), spray adhesive.

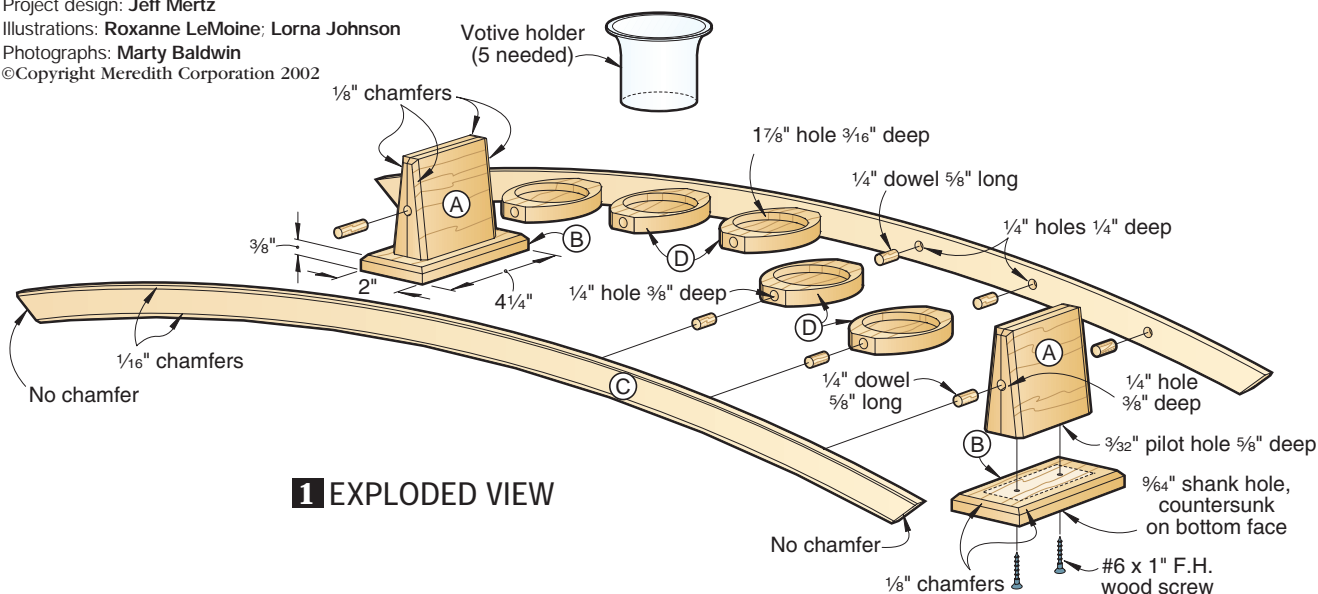
Bits: Chamfer router bit, $1\frac{7}{8}$ " Forstner bit.

Candles and holders. Look for votive candles and glass holders at department stores, gift shops, or crafts supply stores.

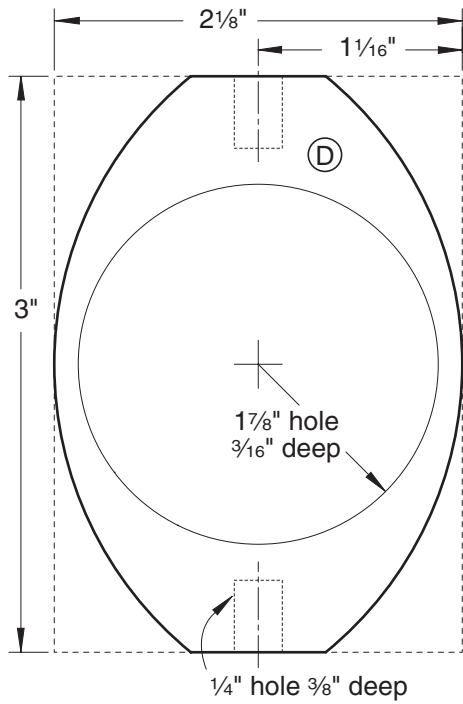
cutting diagram



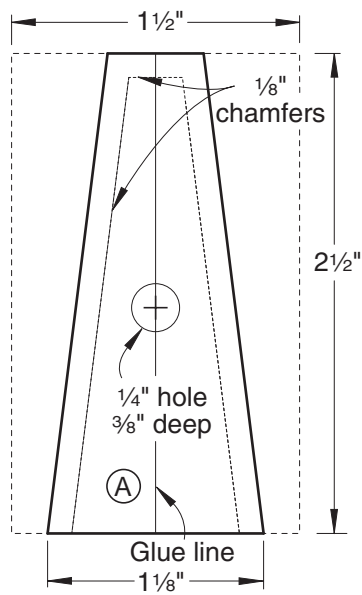
*Plane or resaw to the thickness listed in the Materials List.



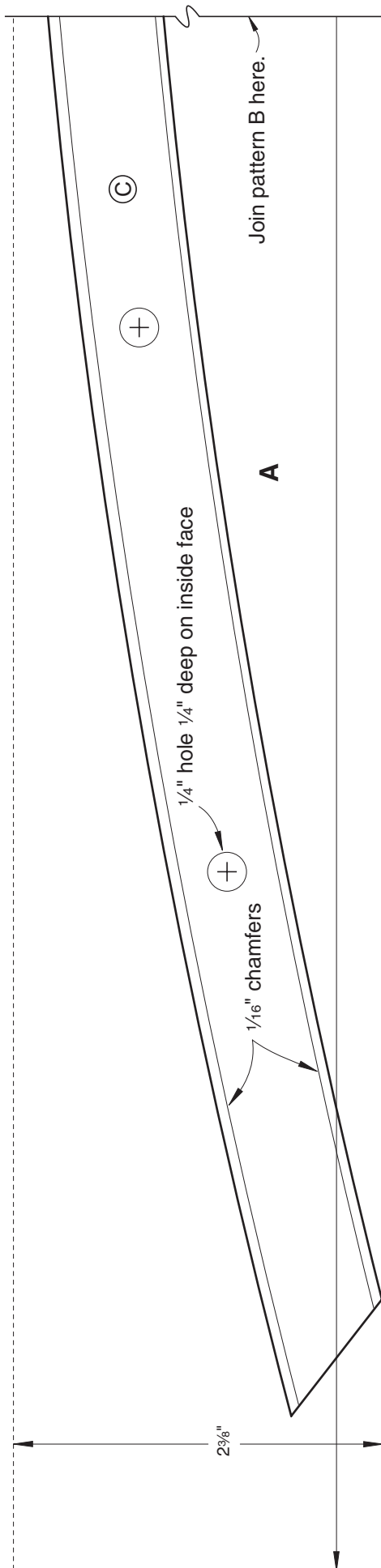
1 EXPLODED VIEW



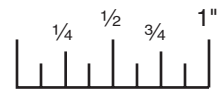
**REST
FULL-SIZE PATTERN**
(5 needed)

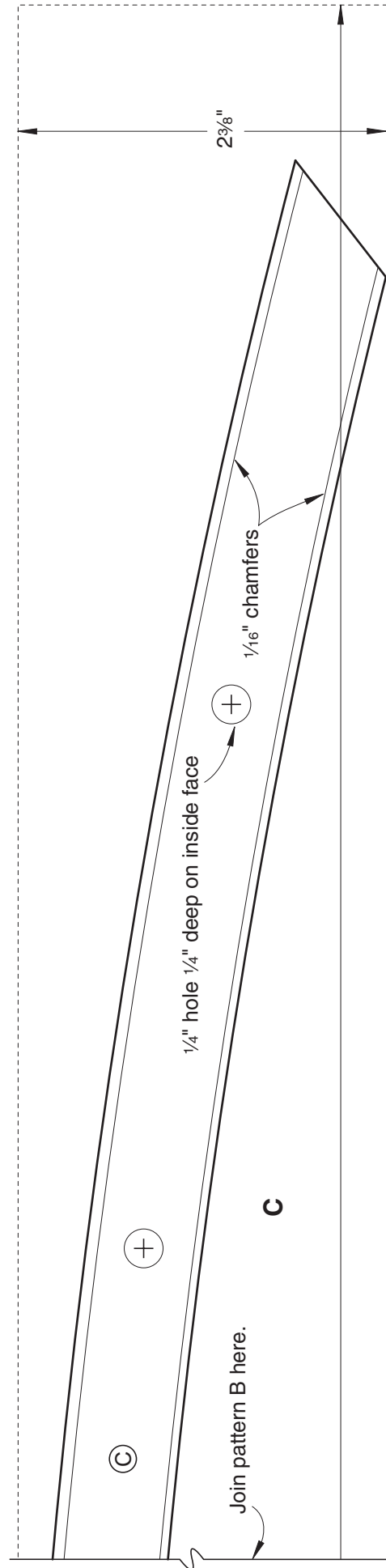
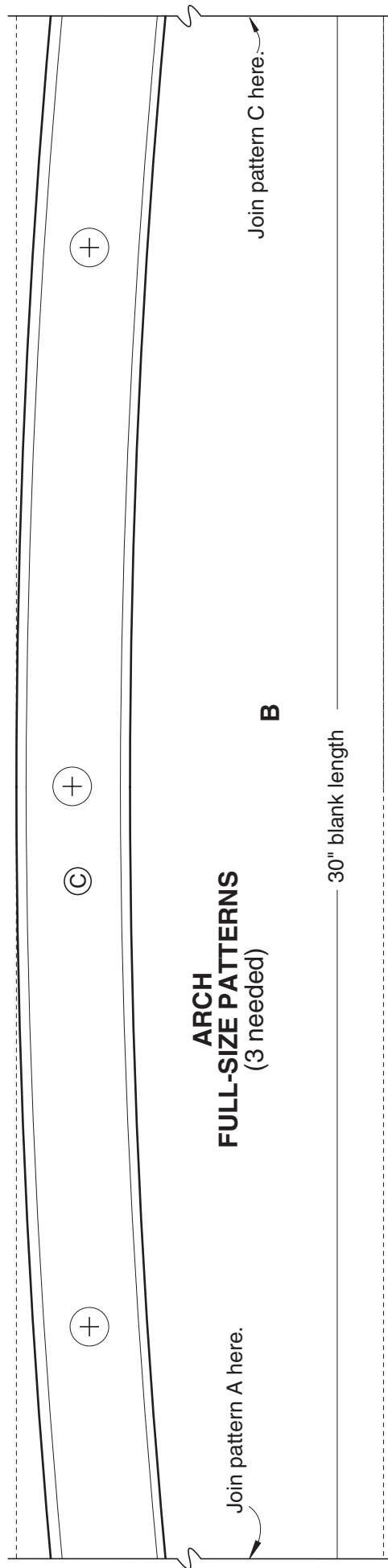


**PIER FULL-SIZE
END PATTERN**
(2 needed)



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